AMENDMENT

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and Assignee reserves the right to claim this subject matter in a continuing application:

1. (Currently Amended) ~~A document surface micro-adjust mechanism for an optical scanner, wherein the optical scanner includes an outer casing, a transparent document platform and an optical lens, the transparent document platform located in the upper section of the outer casing has a document surface, and the optical lens is installed inside the outer casing, the document surface micro-adjust mechanism at least~~ An apparatus, comprising:

a micro-adjust mechanism to adjust an optical path of an optical scanner, comprising:

a carrier chassis ~~located in the upper section of~~ disposed on an ~~the~~ outer casing of said optical scanner, wherein the carrier chassis ~~encloses the transparent~~ comprises a document platform and ~~has~~ a through-hole;

~~a latching structure attached to~~ an engaging element formed on the outer casing~~, wherein the latching structure has a locking hole that corresponds in position to the through hole in the carrier chassis~~;

~~a locking~~ an adjusting element ~~passing~~ disposed at least partially through the through-hole and engaging with the ~~locking hole~~ engaging element ~~in the latching structure, wherein depth of the locking element inside the locking hole corresponds to the optical path distance from the document surface of the transparent document platform to the optical lens; and~~

~~an elastic element between the carrier chassis and the latching structure, wherein one end of the elastic element pushes against the carrier chassis while the other end of the elastic element pushes against the latching structure~~ wherein the adjusting element is adapted to adjust a position of the carrier chassis with respect to an optical lens of said optical scanner.

2. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein the carrier chassis further includes a first side ~~terminal~~ and a second side ~~terminal such that~~, wherein the first side ~~terminal hinges on an upper wall of~~ is hinged to the outer casing ~~and the second side terminal has a through hole~~.

3. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein ~~the latching structure and~~ the engaging element is formed to be integrated with the outer casing ~~are fabricated together as an integrative unit~~.

4. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, ~~wherein the~~ and further comprising an elastic element ~~is formed directly on the latching structure to provide a spring force that pushes against the carrier chassis~~ coupled to the carrier chassis and adapted to push against the outer casing.

5. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein the ~~elastic element is formed directly on the carrier chassis to provide a spring force that pushes against the latching structure~~ adjusting element comprises a screw.

6. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein the elastic element ~~includes~~ comprises a spring.

7. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein the ~~elastic element includes a coiled spring~~ engaging element comprises a threaded hole.

8. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein the ~~locking~~ adjusting element ~~includes~~ comprises a bolt.

9. (Currently Amended) The ~~micro-adjust mechanism~~ apparatus of claim 1, wherein ~~the locking element passes through the through-hole and the elastic element before engaging with the locking hole on the latching structure~~ the document platform is substantially formed from transparent material.

10. (New) An apparatus, comprising:

one or more optical elements to transmit scanned objects in an optical path, said one or more optical elements being disposed within an outer casing;

a carrier chassis coupled to the outer casing, wherein the carrier chassis comprises a document platform;

an adjusting element disposed on the carrier chassis and adapted to adjust a position of the carrier chassis with respect to said outer casing to change said optical path.

11. (New) The apparatus of claim 10, further comprising a through-hole formed on the carrier chassis adapted to receive said adjusting element.

12. (New) The apparatus of claim 10, further comprising an engaging element formed on the outer casing adapted to engage said adjusting element.

13. (New) The apparatus of claim 10, wherein the carrier chassis comprises a first side and a second side, wherein at least one of the first and second sides is hinged to the outer casing.

14. (New) The apparatus of claim 10, further comprising an elastic element coupled to the carrier chassis, wherein the elastic element is adapted to push against the outer casing.

15. (New) The apparatus of claim 14, wherein the elastic element comprises a spring.

16. (New) The apparatus of claim 12, wherein the adjusting element comprises a screw.

17. (New) The apparatus of claim 16, wherein the engaging element comprises a threaded hole adapted to receive at least a portion of the screw.

18. (New) The apparatus of claim 10, wherein the document platform is formed substantially from transparent material.